

# CHEMISTS' REPORT

— OF —

## ADULTERATED ARTICLES

ANALYZED FOR THE

52

# Ohio Dairy and Food Commission

FOR THE YEAR ENDING MAY 1, 1893,

BY

CHIEF CHEMIST H. A. WEBER, Columbus, Ohio;  
CHEMISTS A. H. OTTEN, Cincinnati, Ohio;  
A. W. SMITH, Cleveland, Ohio;  
G. A. KIRCHMAIER, Toledo, Ohio.

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1893

*F. B. McNEAL, Dairy and Food Commissioner.*

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The following tabular statement gives a summary of the work done by the chemists of the commission for the year ending May 15, 1893.

ARTICLES.	No. of Samples Adulterated.	No. of Samples Pure.	TOTAL.
Allspice.....	7	5	12
Baking Powder.....			9
Bicarbonate Soda.....		1	1
Buckwheat Flour.....	11	6	17
Butter.....	24	15	39
Catsup.....	1		1
Candy.....		1	1
Cayenne Pepper.....		1	1
Chicken Sausage.....	1		1
Canned Salmon.....		1	1
Cider.....	4	2	6
Cinnamon.....	15	3	18
Cloves.....	12	2	14
Coffee.....	56	8	64
Cocoa.....		1	1
Condensed Milk.....	2		2
Condensed Cream.....	1		1
Cream Tartar.....	14	7	21
Ginger.....	12	4	19
Honey.....	2	4	6
Ice Cream.....	1		1
Jelly.....	8	1	9
Lard.....	6	12	18
Maple Syrup.....	12	20	32
Maple Sugar.....		1	1
Molasses.....		1	1
Mustard.....	9	2	12
Milk.....	6	6	12
Oleamargarine.....	30	9	39
Paregoric.....	1		1
Pepper.....	29	12	41
Powdered Sugar.....		1	1
Olive Oil.....	9	3	12
Preservaline.....	2		2
Saratoga Chips.....	1		1
Tea.....		2	2
Vinegar.....	61	32	93
Whiskey.....		5	5
Wine.....	6	24	30
<b>TOTAL.....</b>	<b>341</b>	<b>193</b>	<b>545</b>



## Allspice.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
786		New York.....		New York.
790	H. Eicholtz	Casstown.....	S. Zollinger .....	Piqua, O.
807	S. Zollinger	Piqua, O.....	C. Rupes & Co .....	New York.
814	C. B. Clark & Co	Ironton, O.....	W. H. Crawford & Co.	Baltimore, Md.
128	H. Vanzalk	Cleveland, O.....	Zipp & Schoendorfer	Cleveland, O.
1346	S. H. Leapley	Troy, O.....	Peoples W. G. Co .....	Cincinnati, O.
46	Thos. Deck	Swanton, O .....	Toledo Spice Co. ....	Toledo, O.

### ANALYSIS OF SAMPLES.

786	Fat .....	1.93	
	Ash .....	2.15	
	Consists of ground cocoanut shells and allspice.		
	Imitation allspice.		
			H. A. WEBER, Chemist.
790	Ash .....	9.54	
	Consists of allspice, mustard hulls, some product of wheat, and about 5% mineral matter.		
			H. A. WEBER, Chemist.
807	Ash .....	3.90	
	Consists of ground crackers and allspice.		
			H. A. WEBER, Chemist.
814	Ash .....	2.61	
	Consists of roasted bread and allspice.		
			H. A. WEBER, Chemist.
128	Ash .....	4.96	
	Allspice .....	20.00	
	Wheat, husks, turmeric and charcoal.....		
		80.00	
			A. W. SMITH, Chemist.
1346	Ash .....	18.10	
	Clay .....	15.00	
	Turmeric and wheat flour .....		
		33.00	
	Allspice .....	52.00	
			G. A. KIRCHMAIER, Chemist.
46	Ash .....	4.70	
	Allspice about.....	75.00	
	Clove stems.....	25.00	
			G. A. KIRCHMAIER, Chemist.

## Cinnamon.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS	PRODUCER.	ADDRESS.
785		New York . . . . .		New York.
791	L. C. Young . . . . .	Piqua, O . . . . .	Potter Parlin Co . . . . .	Cincinnati, O.
801	John Dabus . . . . .	Piqua, O . . . . .	S. Zollinger . . . . .	Piqua, O.
810	J. N. Corey . . . . .	New Carlisle, O. . . . .	Dayton Spice Co . . . . .	Dayton, O.
818	W. A. Murdock . . . . .	Ironton, O . . . . .	Lafayette Spice Co . . . . .	Philadelphia, Pa.
819	W. A. Murdock . . . . .	Ironton, O . . . . .	A. C. Colburn & Co . . . . .	"
849	Aurbaugh . . . . .	Martin's Ferry . . . . .	A. C. Colburn & Co . . . . .	"
850	C. & J. Tea Store . . . . .	Steubenville, O. . . . .	A. C. Colburn & Co . . . . .	"
851	R. Smith . . . . .	Uhrichsville, O. . . . .	A. C. Colburn & Co . . . . .	"
852	McCabe . . . . .	Martin's Ferry . . . . .	A. C. Colburn & Co . . . . .	"
856	J. B. Fulton . . . . .	Athens, O . . . . .	A. C. Colburn & Co . . . . .	"
868	J. Hannon . . . . .	Ironton, O . . . . .	Ball Warfield Drug Co . . . . .	Ironton, O.
43	S. H. Leapley . . . . .	Troy, O . . . . .	Peoples W. G. Co . . . . .	Cincinnati, O.
45	Thos. Deck . . . . .	Swanton, O . . . . .	Toledo Spice Co . . . . .	Toledo, O.

### ANALYSIS OF SAMPLES.

785	Fixed oil . . . . .	2.61
	Ash . . . . .	3.59
Consists of ground cocoanut shells cassia and imitation Cinnamon.		
		H. A. WEBER, Chemist.
791	Ash . . . . .	6.00
	Cinnamon, about . . . . .	50.00
	Sago flour, about . . . . .	50.00
		H. A. WEBER, Chemist.
801	Ash . . . . .	2.75
	Sago flour, about . . . . .	50.00
	Cassia, about . . . . .	50.00
		H. A. WEBER, Chemist.
810	Ash . . . . .	18.25
	Consists of gypsum and red ochre . . . . .	15.00
	Mustard hulls, crackers or bread, cocoanut shells and a little cinnamon or cassia.	
		H. A. WEBER, Chemist.
818	Ash . . . . .	5.38
	Consists of turmeric and cassia.	
		H. A. WEBER, Chemist.

819	Ash . . . . .	28.65
	Consists of gypsum and red ochre . . . . .	25.00
	Exhausted turmeric, rice hulls and very little cassia. Artificially flavored with essential oils.	
	Labelled "East India Cinnamon."	
	H. A. WEBER, Chemist.	
849	Ash . . . . .	2.95
	Consists of red sago, cocoanut shells and cassia.	
	H. A. WEBER, Chemist.	
850	Ash . . . . .	2.84
	Consists of red and white sago chiefly, roasted cocoanut shells and cassia.	
	H. A. WEBER, Chemist.	
851	Ash . . . . .	12.73
	Consists of gypsum . . . . .	10.00
	Mustard hulls, red and white sago, cocoanut shells and cinnamon.	
	H. A. WEBER, Chemist.	
852	Ash . . . . .	11.98
	Consists of gypsum . . . . .	10.00
	sago and cassia.	
	H. A. WEBER, Chemist.	
856	Ash . . . . .	7.00
	Low grade of cassia.	
	H. A. WEBER, Chemist.	
868	Ash . . . . .	8.70
	Consists of red ochre . . . . .	6.00%
	Corn meal and starch chiefly and a little cassia.	
	The corn product was exceedingly fine, probably cerealine.	
	H. A. WEBER, Chemist.	
43	Ash . . . . .	6.30
	Cassia, about . . . . .	75.00
	Wheat flour . . . . .	25.00
	G. A. KIRCHMAIER, Chemist.	
45	Ash . . . . .	2.80
	Cassia, about . . . . .	75.00
	Ginger, allspice and pepper . . . . .	25.00
	G. A. KIRCHMAIER, Chemist.	

## Cloves.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
784		New York.....		New York.
798	M. Fox.....	Piqua, O.....	S. Zollinger.....	Piqua, O.
799	L. C. Young.....	Piqua, O.....	Potter Parlin Co.....	Cincinnati, O.
815	W. A. Murdock.....	Ironton, O.....	W. H. Crawford & Co.....	Baltimore, Md.
816	W. H. Lyud.....	Ironton, O.....	W. H. Crawford & Co..	"
817	C. B. Clark & Co.....	Ironton, O.....	W. H. Crawford & Co..	"
895	H. M. Francisco.....	Ironton, O.....	W. A. Murdock.....	Ironton, O.
855	R. Smith.....	Uhrichsville, O.....	A. Colburn Co.....	Philadelphia, Pa.
896	M. E. Fox.....	Ironton, O.....	W. A. Murdock.....	Ironton, O.
117	H. Vanzalk.....	Cleveland, O.....	Zipp & Schorndorfer.	Cleveland, O.
47	J. C. Huken & Co ..	Cincinnati, O.....		
44	Thos. Dick.....	Swanton, O.....	Toledo Spice Co.....	Toledo, O.

### ANALYSIS OF SAMPLES.

<b>784</b>	Fixed fat.....	5.05
	Ash .....	3.08
	Consists of roasted cotton seed, meal and a little allspice.	
	Imitation cloves	
		H. A. WEBER, Chemist.
<b>798</b>	Ash .....	3.70
	Fixed fat.....	3.29
	Olive stones, roasted cocoanut shells and all-spice, together about .....	66.66
	Cloves about.....	33.33
		H. A. WEBER, Chemist.
<b>799</b>	Ash.....	9.33
	Spent cassia, about.....	50.00
	Allspice, about .....	50.00
		H. A. WEBER, Chemist.
		14.52
	Consists of Gypsum and red ochre .....	10.00
	Rice hulls, rice flour, roasted cocoanut shells, ems and a little cloves.	
		H. A. WEBER, Chemist.

816	Ash . . . . .	3.45
Consists of olive stones chiefly, rice hulls, allspice and a little cloves.		
	H. A. WEBER, Chemist.	
817	Ash . . . . .	2.93
Consists of olive stones chiefly, allspice and a little cloves.		
	H. A. WEBER, Chemist.	
855	Ash . . . . .	8.18
Consists of clove stems, allspice, lentils and cloves.		
	H. A. WEBER, Chemist.	
895	Ash . . . . .	10.08
Consists of roasted cocoanut shells, allspice, lentils, rice hulls and cloves.		
	H. A. WEBER, Chemist.	
117	Ash . . . . .	3.75
Volatile oil . . . . .	7.22	
Fixed oil . . . . .	4.51	
Consists of large amount of roasted husks, turmeric, and small amount of cloves.		
	A. W. SMITH, Chemist.	
896	Ash . . . . .	8.45
Consists of roasted cocoanut shells, allspice, clove stems and cloves.		
	H. A. WEBER, Chemist.	
47	Cloves . . . . .	50.00
Clove stems . . . . .	50.00	
	A. H. OTTEN, Chemist.	
44	Ash . . . . .	7.50
Cloves, about . . . . .	70.00	
Ginger, allspice and pepper . . . . .	30.00	
	G. A. KIRCHMAIER, Chemist.	

# Coffee.

## DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
707	Smith & Moore	Columbus, O	O. Coffee & Spice Mills	Columbus, O.
708	C. M. Young	Wash. C. H., O.	Eagle Spice Mills	Dayton, O.
719	J. A. Funk	Springfield, O	Plantation Coffee Co.	New York.
720	J. A. Funk	Springfield, O	Arbuckle & Co	New York.
727	M. Halloran	Ironton, O	Dayton Spice Co.	Dayton, O.
728	M. Halloran	Ironton, O	Miami Manuf'g Co	Cincinnati, O.
729	Stark, Boal & Co	Steubenville, O	Canby, Ach & Co	Dayton, O.
733	C. Bimge	Toledo, O	Toledo Spice Co.	Toledo, O.
734	M. Nadolny	Toledo, O	Eagle Spice Co.	Toledo, O.
743	A. Krotz	Defiance, O	R. M. Weir	New York.
748	J. Troutman	Springfield, O	J. A. Funk	Springfield, O.
749	J. Troutman	Springfield, O	Sunrise Coffee Co.	Dayton, O.
750	J. A. Funk	Springfield, O	Tea Leaf Tea Co.	Springfield, O.
751	J. Weissel	Springfield, O	J. A. Funk	Springfield, O.
753	J. A. Funk	Springfield, O		
763	J. J. Brenan	Marietta, O	Arbuckle	Pittsburg, Pa.
777	R. M. Roach & Co.	Athens, O	Ross, Weir & Co.	New York.
778	J. R. Harvey	Athens, O	Miami Manuf'g Co	Cincinnati, O.
779	A. L. Roach	Athens, O		
780	Harper		Domestic B. P. Co	Cincinnati, O.
781	M. Halloran	Ironton, O	C. F. Ware	Dayton, O.
782	M. Fox	Piqua, O	Harvey, Hagen & Co.	Huntington, W. Va.
783	H. H. Minders	Piqua, O	Pen. C. Mills	Jackson, Mich.
805	F. J. Baur	Columbus, O	Reid, Murdock & Co.	Chicago, Ill.
820	W. A. Murdock	Ironton, O	F. W. Daisz	Philadelphia, Pa.
838	China Tea Store	Uhrichsville, O		
839	Aurbaugh	Martin's Ferry		
859	Schmidt & Furgeson	E. Liverpool, O	A. B. Gates	Indianapolis, Ind
860	Atlantic Tea Co.	E. Liverpool, O		
861	J. Peak	E. Liverpool, O		
874	J. F. Horney	Portsmouth, O	B. Augustine	Portsmouth, O.
11	At. & Pac. Tea Co.	Cleveland, O		
17	At. & Pac. Tea Co.	Cleveland, O		
18	U. Pacific Tea Co			
30	At. & Pac. Tea Co.	Cleveland, O		
36	A. J. Wenham's Sons	Cleveland, O	Bonanza Coffee Co.	New York.
34	U. Pacific Tea Co	Cleveland, O	Same	New York.
42			Smith & Curtis	Cleveland, O.
43	D. B. Cotton	Cleveland, O	Home Tea Co.	"
48	D. B. Cotton	Cleveland, O	Home Tea Co.	"
49	D. B. Cotton	Cleveland, O	Home Tea Co.	"
51	U. Pacific Tea Co	Youngstown, O	U. Pacific Tea Co	New York.
54	Chas. Fox	Cleveland, O		
55	C. R. Lublien	Cleveland, O	Smith & Curtis	Cleveland, O.
80	W. F. Snyder	Youngstown, O		

# Coffee

## DESCRIPTION OF SAMPLES—Concluded.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
90	Gt. Eastern Tea Co.	Massillon, O.		
91	Gt. Eastern Tea Co.	Canton, O.		
97	F. S. McCloud	Canton, O.		
118	C. H. Elberson	Canton, O.		
119	Miller & Roach	Akron, O.		
120	I. Reader	Akron, O.		
121	C. W. Bonstedt	Akron, O.	Hygienic Coffee Works.	Syracuse, N. Y.
122	Best & Co.	Canton, O.		
124	Albrecht	Akron, O.		
51	S. R. Mitchell	Midland City, O.	McKeehan Heister Co.	Hillsboro, O.
120	F. H. Bemis & Co.	Cincinnati, O.	Renner & Co.	Cincinnati, O.

## ANALYSIS OF SAMPLES.

707	Coffee	.....	33.33
	Chicory and substitute	.....	66.66
H. A. WEBER, Chemist.			
708	Coffee	.....	33.00
	Chicory	.....	6.60
	Substitute	.....	60.00
H. A. WEBER, Chemist.			
719	Coffee	.....	43.00
	Chicory	.....	3.00
	Barley	.....	3.00
	Pease	.....	6.00
	Damaged Coffee (black)	.....	2.00
	Fine mixture of above	.....	43.00
H. A. WEBER, Chemist.			
720	This sample was found to be coffee screenings, being highly adulterated with coffee shells and damaged (black) coffee.		
	H. A. WEBER, Chemist.		
727	Coffee	.....	25.00
	Pease (flattened)	.....	15.00
	Coffee substitute	.....	18.00
	Chicory	.....	2.00
	Fine mixture of above	.....	40.00
	H. A. WEBER, Chemist.		

728	Coffee .....	61.00
	Pease (flattened).....	37.00
	Chicory.....	2.00
		H. A. WEBER, Chemist.
729	Coffee .....	28.00
	Coffee substitute.....	67.00
	Chicory.....	5.00
		H. A. WEBER, Chemist.
733	Coffee .....	33.33
	Adulterants.....	66.66
	The adulterants are chicory, rye, pease and beans.	
		H. A. WEBER, Chemist.
734	Coffee .....	33.33
	Adulterants.....	66.66
	The adulterants are rye, wheat, bran pellets and chicory	
		H. A. WEBER, Chemist.
743	Coffee .....	47.00
	Pease.....	41.00
	Chicory .....	10.00
	Damaged coffee (black).....	2.00
		H. A. WEBER, Chemist.
748	Coffee .....	29.00
	Pease.....	5.00
	Rye .....	2.00
	Chicory .....	1.00
	Wheat bran pellets.....	1.00
	Fine mixture of above.....	62.00
		H. A. WEBER, Chemist.
749	Coffee .....	25.00
	Rye, peas and chicory.....	75.00
		H. A. WEBER, Chemist.

750	Coffee .....	90.00
	Chicory .....	2.00
	Pease.....	3.00
	Wheat bran pellets.....	5.00

H. A. WEBER, Chemist.

751	Coffee .....	60.00
	Brickdust .....	5.00
	Wheat bran pellets and chicory.....	35.00

H. A. WEBER, Chemist.

753	Coffee .....	38.00
	Chicory .....	3.00
	Pease.....	4.00
	Wheat bran pellets.....	2.00
	Mixture of above.....	53.00

H. A. WEBER, Chemist.

763	Coffee .....	75.00
	Damaged coffee (black).....	19.00
	Coffee shells.....	2.00
	Wood and bark.....	4.00

H. A. WEBER, Chemist.

777	Coffee .....	4500
	Wheat bran pellets.....	54.00
	Chicory .....	1.00

H. A. WEBER, Chemist.

778	Coffee .....	60.00
	Lentils and chicory .....	40.00

H. A. WEBER, Chemist.

779	Coffee .....	None
	Coffee substitute and chicory .....	100.00

H. A. WEBER, Chemist.

780	Coffee .....	None
	Coffee substitute and chicory .....	100.00

H. A. WEBER, Chemist.

<b>781</b>	Coffee . . . . .	78.50
	Pebbles . . . . .	10.50
	Wood and bark . . . . .	5.00
	Coffee shells . . . . .	2.50
	Damaged Coffee . . . . .	3.50

This is a sample of coffee screenings.

H. A. WEBER, Chemist.

<b>782</b>	Coffee . . . . .	45.00
	Cereals and chicory . . . . .	55.00

H. A. WEBER, Chemist.

<b>783</b>	Coffee . . . . .	30.00
	Chicory, cereals and pease . . . . .	70.00

H. A. WEBER, Chemist.

<b>805</b>	Coffee . . . . .	66.66
	Pease . . . . .	33.33

H. A. WEBER, Chemist.

<b>820</b>	Ash . . . . .	6.16
	Consists of corn meal, shells, chicory extract, produces a highly colored solution due to caramel. Contains no coffee or coffee extract.	

H. A. WEBER, Chemist.

<b>838</b>	Coffee . . . . .	57.00
	Wheat, bran pellets and shells . . . . .	43.00

H. A. WEBER, Chemist.

<b>839</b>	Coffee . . . . .	15.00
	Rye, bread, pease and brick dust . . . . .	85.00

H. A. WEBER, Chemist.

<b>859</b>	Cold water extract . . . . .	1.30%
	Coffee coated. Coating contains paraffine	

H. A. WEBER, Chemist.

<b>860</b>	Coffee . . . . .	74.00
	Damaged coffee (black) . . . . .	18.00
	Coffee shells . . . . .	2.00
	Wood . . . . .	2.00
	Pebbles . . . . .	4.00
	Coffee screenings	

H. A. WEBER, Chemist.

861	Coffee .....	25.00
	Roasted bread, bran pellets, pease and pea shells.....	75.00
		H. A. WEBER, Chemist.
874	Coffee .....	46.00
	Chicory.....	16.00
	Pease.....	38.00
		H. A. WEBER, Chemist.
11	Coffee.....	55.00
	Chicory.....	45.00
		A. W. SMITH, Chemist.
17	Coffee .....	55.00
	Chicory .....	45.00
		A. W. SMITH, Chemist.
18	Coffee .....	65.00
	Chicory.....	35.00
		A. W. SMITH, Chemist.
30	Coffee .....	55.00
	Chicory .....	45.00
		A. W. SMITH, Chemist.
33	Coffee .....	45.60
	Chicory.....	29.80
	Corn and Pease.....	24.60
		A. W. SMITH, Chemist.
34	Coffee .....	50.00
	Chicory.....	35.00
	Corn and Pease.....	15.00
		A. W. SMITH, Chemist.
42	Coffee .....	50.00
	Chicory.....	30.00
	Pease and Wheat.....	20.00
		A. W. SMITH, Chemist.

43	Coffee .....	50.00
	Chicory.....	35.00
	Pease.....	15.00
		A. W. SMITH, Chemist.
48	Coffee .....	60.00
	Chicory.....	20.00
	Pease.....	20.00
		A. W. SMITH, Chemist.
49	Coffee .....	50.00
	Chicory.....	20.00
	Pease.....	30.00
		A. W. SMITH, Chemist.
51	Coffee .....	60.00
	Chicory.....	25.00
	Pease.....	15.00
		A. W. SMITH, Chemist.
54	Coffee .....	75.00
	Chicory.....	15.00
	Pease.....	10.00
		A. W. SMITH, Chemist.
55	Coffee .....	75.00
	Chicory.....	10.00
	Pease.....	15.00
		A. W. SMITH, Chemist.
80	Coffee .....	50.00
	Chicory.....	30.00
	Beans .....	20.00
		A. W. SMITH, Chemist.
90	This sample consists of roasted beans and pease, some wheat and a very little coffee.	
		A. W. SMITH, Chemist.
91	Coffee .....	65.00
	Chicory.....	20.00
	Coffee hull, pease, hairs, dirt and wood....	15.00
		A. W. SMITH, Chemist.

97	Coffee .....	65.00
	Pease.....	15.00
	Chicory.....	20.00
		A. W. SMITH, Chemist.
118	Coffee .....	30.00
	Chicory .....	35.00
	Beans .....	35.00
		A. W. SMITH, Chemist.
119	Coffee .....	60.00
	Chicory .....	20.00
	Pease, wheat, etc.....	20.00
		A. W. SMITH, Chemist.
120	Coffee .....	50.00
	Chicory.....	35.00
	Pease.....	15.00
		A. W. SMITH, Chemist.
121	Consists of roasted rye, barley hulls and contains no coffee.	
		A. W. SMITH, Chemist.
122	Coffee .....	85.00
	Stones, dirt, etc.....	15.00
		A. W. SMITH, Chemist.
124	Coffee .....	90.00
	Stones, dirt, etc.....	10.00
		A. W. SMITH, Chemist.
51	Coffee .....	40.00
	Substitute .....	60.00
		A. H. OTTEN, Chemist.
120	Coffee .....	None
	Raasted Malt.....	100.00
		LOUIS SCHMIDT, Chemist.

## Cream of Tartar,

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
811	J. N. Cory .....	New Carlisle .....	Dayton Spice Co .....	Dayton, O.
825	W. G. Hathaway.....	Columbus, O .....		
826	J. H. Jackson.....	Columbus, O .....		
827	Bennett & Host.....	Columbus, O .....		
828	E. J. Crane & Son .....	Columbus, O .....	Isaac Eberly .....	Columbus, O.
829	Flag Grocery.....	Columbus, O .....	E. R. Durkee .....	New York.
830	Hawk & Hawk .....	Columbus, O .....		
831	G. F. Wheeler .....	Columbus, O .....	C. E. Freeman .....	Columbus, O.
836	Baker's.....	New York .....		
857	J. B. Fulton.....	Athens, O .....		
897	H. M. Francisco.....	Ironton, O.....	W. A. Murdock .....	Ironton, O.
99	Beckel & Demoulin .....	Canton, O.....	Silver King Spice Co .....	New York.
131	F. S. McCloud .....	Akron, O .....		
36	S. H. Leapley .....	Troy, O .....	People's W. G. Co .....	Cincinnati, O.

### ANALYSIS OF SAMPLES.

811	Cream Tartar.....	13.17
	Alum .....	None
	Acid Phosphate.....	None
	Gypsum .....	73.38
	Calcium phosphate and moisture.....	None
	Starch .....	13.45

H. A. WEBER, Chemist.

825	Cream Tartar.....	None
	Alum .....	6.81
	Acid Phosphate.....	10.43
	Gypsum .....	41.46
	Starch .....	41.30

H. A. WEBER, Chemist.

826	Cream Tartar.....	33.26
	Gypsum .....	66.74

H. A. WEBER, Chemist.

827	Cream Tartar .....	None
	Alum .....	13.62
	Acid Phosphate .....	14.90
	Gypsum .....	26.04
	Starch .....	45.44

H. A. WEBER, Chemist.

828	Cream Tartar . . . . .	None
	Acid Phosphate . . . . .	14.90
	Gypsum . . . . .	65.10
	Starch . . . . .	20.00
H. A. WEBER, Chemist.		
829	Cream Tartar . . . . .	None
	Acid Phosphate . . . . .	13.41
	Gypsum . . . . .	42.77
	Starch . . . . .	43.82
H. A. WEBER, Chemist.		
830	Cream Tartar . . . . .	22.57
	Alum . . . . .	8.94
	Gypsum . . . . .	53.20
	Starch . . . . .	15.29
H. A. WEBER, Chemist.		
831	Cream Tartar . . . . .	50.78
	Acid Phosphate . . . . .	10.27
	Gypsum . . . . .	9.39
	Starch . . . . .	29.56
H. A. WEBER, Chemist.		
836	Cream Tartar . . . . .	None
	Acid Phosphate . . . . .	22.35
	Gypsum . . . . .	40.39
	Calcium phosphate and moisture . . . . .	21.56
	Starch . . . . .	15.70
H. A. WEBER, Chemist.		
857	Cream Tartar . . . . .	None
	Acid Phosphate . . . . .	22.35
	Gypsum . . . . .	54.05
	Starch . . . . .	23.60
H. A. WEBER, Chemist.		
897	Cream Tartar . . . . .	None
	Acid Phosphate . . . . .	8.17
	Gypsum . . . . .	48.13
	Starch . . . . .	43.70
H. A. WEBER, Chemist.		

99	Cream Tartar .....	None
	Acid Phosphate.....	42.70
	Gypsum .....	41.10
	Starch .....	16.20
A. W. SMITH, Chemist.		
131	Cream Tartar .....	None
	Acid Phosphate.....	30.30
	Gypsum .....	45.00
	Starch .....	24.70
A. W. SMITH, Chemist.		
36	Cream Tartar .....	26.32
	Gypsum .....	31.10
	Starch .....	36.10
G. A. KIRCHMAIER, Chemist.		

## Ginger.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
787		New York.....		New York.
788	J. C. Knoop.....	Casstown, O.....	Crossley & Adamson ..	Dayton, O.
789	H. H. Meinders.....	Piqua, O.....	Silver King Spice Co..	New York.
802	L. C. Young.....	Piqua, O.....	Potter Parlin Co.....	Cincinnati, O.
803	John Dabus .....	Piqua, O .....	S. Zollinger .....	Piqua, O.
809	J. N. Corry .....	New Carlisle, O.	Dayton Spice Co.....	Dayton, O.
840	E. E. Potts.....	Steubenville, O.....		
841	McCabe .....	Martin's Ferry O.....		
844	C. & J. Tea Store .....	Steubenville, O .....		
845	J. L. Higgins .....	Bridgeport, O.....		
878	Atlantic Tea Co.....	E. Liverpool, O.....		
1347	S. H. Leapley.....	Troy, O .....	People's W. G. Co .....	Cincinnati, O.

### ANALYSIS OF SAMPLES.

787	Ash .....	12.14
	Consists of rice hulls, rice flour and mineral matter.	
	Imitation Ginger.	
		H. A. WEBER, Chemist.
788	Ash.....	6.98
	Consists of ginger, rice hulls and rice flour.	
		H. A. WEBER, Chemist.
789	Ash.....	4.15
	Consists of ginger, rice hulls, rice flour.	
		H. A. WEBER, Chemist.

802	Ash .....	8.45
	Slightly adulterated with rice flour	
		H. A. WEBER, Chemist.
803	Ash .....	9.18
	Slightly adulterated with corn meal and ocher.	
		H. A. WEBER, Chemist.
809	Ash .....	22.50
	Consists of gypsum.....	20.00%
	Rice hulls, turmeric and ginger.	
		H. A. WEBER, Chemist.
840	Ash .....	3.13
	Consists of corn meal and ginger.	
		H. A. WEBER, Chemist.
841	Ash .....	28.80
	Gypsum .....	25.00
	Ginger and turmeric.....	75.00
		H. A. WEBER, Chemist.
844	Ash .....	3.85
	Consists of rice flour, corn meal and ginger.	
		H. A. WEBER, Chemist.
845	Ash .....	5.10
	Consists of rice flour, turmeric and ginger.	
		H. A. WEBER, Chemist.
878	Ash .....	23.02
	Gypsum .....	20.00
	Turmeric and ginger.....	80.00
		H. A. WEBER, Chemist.
1347	Ash .....	2.50
	Ginger, about .....	66.00
	Wheat flour, about.....	33.00
		G. A. KIRCHMAIER, Chemist.

## Honey.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
885	A. M. Helms .....	Steubenville, O.	Bucannon & Sons .....	W. Va.
886	M. Halloran .....	Ironton, O.....	Crinkshank & Bros. Co.	Allegheny, Pa.

ANALYSIS OF SAMPLES.

<b>885</b>	Reducing sugar .....	55.54
	Cane sugar .....	13.00
	Dextrine, etc.....	16.56
	Water .....	14.80
	Ash .....	0.10
	Adulterants, cane sugar and glucose.	

H. A. WEBER, Chemist.

<b>886</b>	Reducing sugar .....	55.54
	Cane sugar .....	None
	Dextrine, etc.....	23.33
	Water .....	21.10
	Ash .....	0.30
	Adulterant, glucose.	

H. A. WEBER, Chemist.

## Maple Syrup.

DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
893				
101	Mathews .....	Massillon, O.	American Preserve Co.	Cincinnati, O.
102	T. Morgan & Co. ....	Massillon, O.	J. Davis & Co. ....	Detroit, Mich.
58	G. F. Eich .....	Cincinnati, O.	Colter & Co .....	Cincinnati, O.
59	C. W. Newkirk .....	Cincinnati, O.	C. Hein & Co. ....	"
64	C. Burkhardt .....	Cincinnati, O.	Hopple, Flach & Co....	"
69	Gr. W. Tea Co .....	Cincinnati, O.	American Preserve Co. .	"
73	C. W. Newkirk .....	Cincinnati, O.	C. H. Hein & Co. ....	"
77	C. Burkhardt .....	Cincinnati, O.	Hopple, Flach & Co....	"
97	T. J. Wanstrath .....	Cincinnati, O.	Williams Bros. ....	Detroit, Mich.
101	I. J. Portwood. ....	Cincinnati, O.	A. E. Idlett & Co . ....	Cincinnati, O.
110	H. Scheut .....	Cincinnati, O.	Woodst'k Maple Syr. Co.	St. Louis, Mo.

ANALYSIS OF SAMPLES.

No.	Reducing Sugar.	Cane Sugar.	Dextrine, Etc.	Water.	Ash.	Adulterant.	Chemist.
893	28.80	25.40	16.52	28.64	0.64	½ Glucose	H. A. Weber.
101	19.90	37.00	12.30	30.50	0.30	⅔ Glucose	A. W. Smith.
102	33.90	32.70	.....	26.90	2.23	Glucose	"
58	17.69	36.00	.....	36.00	0.28	Glucose 30%	A. H. Otten.
59	50.79	4.95	.....	30.83	0.23	Glucose 90%	"
64	28.12	34.24	.....	28.12	0.27	Glucose 45%	"
69	22.12	37.61	.....	29.35	0.28	Glucose 40%	"
73	38.43	4.31	.....	29.15	0.17	Glucose 65%	"
77	33.33	9.70	.....	30.16	0.23	Glucose 60%	"
97	31.25	9.26	.....	25.69	0.16	Glucose 60%	Prof. Westenhoff.
101	28.50	16.10	.....	24.29	0.57	" Molasses	"
110	19.00	29.47	.....	27.27	0.30	Glucose 30%	"

## Mustard.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
717	Carson & Fox	Springfield, O.	Silver King Spice Co.	New York.
771	Gulick & St. Clair	Zanesville, O.	P. P. Kelly & Co.	Zanesville, O.
853	R. Smith	Uhrichsville, O.	O.A. Colburn & Co.	Philadelphia, Pa.
854	J. L. Higgins	Bridgeport, O.		
879	Atlantic Tea Co.	E. Liverpool, O.		
880	Atlantic Tea Co.	Steubenville, O.	H. Bristor	
906	E. Gilmore	Bridgeport, O.		
907	Atlantic Tea Co.	Bellaire, O.	J. M. Jeffers	
98	Rice & Goetz	Cleveland, O.	Ruppender Bros.	Cleveland, O.

### ANALYSIS OF SAMPLES.

717	Ash	4.12	H. A. WEBER, Chemist.
	Contains wheat flour.		
771	Ash	3.60	H. A. WEBER, Chemist.
	Highly adulterated with wheat flour.		
853	Ash	2.15	H. A. WEBER, Chemist.
	Mustard	40.00%	
	Flour and turmeric	60.00%	
854	Ash	5.00%	H. A. WEBER, Chemist.
	Mustard	75.00%	
	Flour and turmeric	25.00%	
879	Ash	2.60%	H. A. WEBER, Chemist.
	Fixed oil	7.10	
	Mustard	19.72	
	Flour and turmeric	80.28	
880	Ash	3.30	H. A. WEBER, Chemist.
	Fixed oil	6.40	
	Mustard	17.77	
	Flour and turmeric	82.23	

906	Ash . . . . .	3.80
	Fixed oil . . . . .	7.60
	Mustard . . . . .	21.00%
	Flour and turmeric . . . . .	79.00%

H. A. WEBER, Chemist.

907	Ash . . . . .	7.10
	Fixed oil . . . . .	18.80

H. A. WEBER, Chemist.

98	Total solids . . . . .	19.40
	Flour, about . . . . .	10.00
	Mustard, about . . . . .	9.00
	Acetic acid . . . . .	2.38
	Prepared Mustard	

A. W. SMITH, Chemist.

## Oleomargarine.

### DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
693	J. F. Mitchell . . . . .	Cleveland, O . . . . .	Union Dairy Co. . . . .	Cleveland, O
694	Fishack & Co. . . . .	Cleveland, O . . . . .	Swift . . . . .	Chicago, Ill.
695	James Holmes . . . . .	Cleveland, O . . . . .	Union Dairy Co. . . . .	Cleveland, O.
696	C. Gansler . . . . .	Cleveland, O . . . . .	Armour . . . . .	Chicago, Ill.
697	C. F. Gendrich . . . . .	Cleveland, O . . . . .	Union Dairy Co. . . . .	Cleveland, O.
698	C. F. Gendrich . . . . .	Cleveland, O . . . . .	Union Dairy Co. . . . .	Cleveland, O.
699	H. M. Stanton . . . . .	Cleveland, O . . . . .	Swift . . . . .	Chicago, Ill.
726	J. Gardner . . . . .	Columbus, O . . . . .		
759	..... . . . . .	Cincinnati, O . . . . .		
832	C. O. Fisher . . . . .	Columbus, O . . . . .		
834	Saul & Eberly . . . . .	Columbus, O . . . . .		
871	Saul & Eberly . . . . .	Columbus, O . . . . .		
1	Waverly House . . . . .	Massillon, O . . . . .		
5	W. A. Clark . . . . .	Cleveland, O . . . . .		
6	C. Kelso . . . . .	Cleveland, O . . . . .		
8	R. Meyers . . . . .	Cleveland, O . . . . .		
9	J. Bickell . . . . .	Cleveland, O . . . . .		
10	Bissell's Restaurant . . . . .	Cleveland, O . . . . .		
23	W. Genrich . . . . .	Cleveland, O . . . . .		
24	W. Genrich . . . . .	Cleveland, O . . . . .		
26	G. Krichle . . . . .	Cleveland, O . . . . .		
28	H. Hartman . . . . .	Cleveland, O . . . . .		
41	Campbell Bros . . . . .	Cleveland, O . . . . .	Union Dairy Co. . . . .	Cleveland, O.
44	M. Hangst . . . . .	Cleveland, O . . . . .	F. Seither . . . . .	Cleveland, O.
45	J. L. Fontaine . . . . .	Cleveland, O . . . . .	F. Seither . . . . .	Cleveland, O.
46	H. Nelson . . . . .	Cleveland, O . . . . .	Friedman Sons . . . . .	Chicago, Ill.
50	F. Seither . . . . .	Cleveland, O . . . . .	F. Seither . . . . .	Cleveland, O.

**OLEOMARGARINE—DESCRIPTION OF SAMPLES—Concluded.**

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
57	W. A. Betz	Cleveland, O.		
39	W. Genrich	Cleveland, O.	F. Seither	Cleveland, O.
103	W. A. Betz	Cleveland, O.	Union Dairy Co.	Cleveland, O.
104	W. H. Phillips	Cleveland, O.		
135	Model Restaurant	Cleveland, O.		
13	Lett & Co	Cincinnati, O.	Wm. Barday	Covington, Ky.
27	T. Foster	Cincinnati, O.	Maxley & Co	Chicago, Ill.
28	T. Foster	Cincinnati, O.	Maxley & Co	Chicago, Ill.
29	T. Foster	Cincinnati, O.	Maxley & Co	Chicago, Ill.
35	C. L. Hinton	Dayton, O.	Maxley & Co	Chicago, Ill.
36	Bechel House	Dayton, O.		
39	J. Honchemeyer	Cincinnati, O.		
52	J. H. Lueken	Cincinnati, O.		
53	J. Honchemeyer	Cincinnati, O.		
54	J. Honchemeyer	Cincinnati, O.		
55	J. H. Lueken	Cincinnati, O.		
2	J. Holmes	Cleveland, O.		
3	W. A. Betz	Cleveland, O.	F. Seither	Cleveland, O.
78	Cooper Hotel	Dayton, O.		
79	Dickey House	Dayton, O.		
108	H. Sicking	Cincinnati, O.		

**ANALYSIS OF SAMPLES.**

No.	Butter Fat.	Other Fats.	Color.	Chemist.	Remarks.
693	12.00	88.00	Annatto.	H. A. Weber	Yellow.
694	11.00	89.00	MethylOr'nge	"	"
695	17.00	83.00	Annatto.	"	"
696	12.00	88.00	MethylOr'nge	"	"
697	15.00	85.00	Annatto.	"	"
698	16.00	84.00	"	"	"
699	16.00	84.00	MethylOr'nge	"	"
726	7.00	93.00	"	"	Sold for butter
769	9.49	90.51	Butter Yellow	"	Yellow.
832	7.00	93.00	MethylOr'nge	"	"
834	12.00	88.00	"	"	"
871	7.00	93.00	Annatto.	"	"
1	2.90	97.10	"	A. W. Smith.	Sold for butter
5	2.30	97.70	MethylOr'nge	"	"
6	2.19	98.80	"	"	"
8	2.80	97.20	"	"	"
9	1.60	98.40	"	"	"
10	4.40	95.60	"	"	"
23	78.10	21.90	Annatto.	"	"
24	1.50	98.50	MethylOr'nge	"	Yellow.

OLEOMARGARINE—ANALYSIS OF SAMPLES—Concluded.

No.	Butter Fat.	Other Fats.	Color.	Chemist.	Remarks.
26	1.80	98.20	MethylOr'nge	A. W. Smith.	Yellow.
28	5.10	94.90	"	"	"
41	8.03	91.97	"	"	"
44	10.20	89.80	"	"	"
45	6.60	93.40	"	"	"
46	2.90	97.10	"	"	"
50	4.40	95.60	"	"	"
57	5.10	94.90	"	"	Sold for butter
39	8.03	92.00	"	"	"
103	7.30	92.70	"	"	"
105	8.20	91.80	"	"	"
135	11.90	78.10	"	"	"
13	70.00	30.00	Artificial.	A. H. Otten.	"
27	None	100.00	"	"	"
28	"	100.00	"	"	"
29	"	100.00	"	"	"
35	6.00	94.00	"	"	"
36	3.00	97.00	"	"	"
39	5.00	95.00	"	"	"
52	10.00	90.00	"	"	"
53	18.00	82.00	"	"	"
54	12.00	88.00	"	"	"
52	13.00	87.00	"	"	"
2	3.60	96.00	MethylOr'nge	King.	Yellow.
3	7.00	93.00	"	"	Sold for Dairy Butter.
78	35.00	65.00	Artificial.	A. H. Otten.	Yellow.
79	40.00	60.00	"	"	"
108	11.00	89.00	"	Westernhoff.	Sold for butter

## Pepper.

DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
715	Carson & Fox .....	Springfield, O	Silver King Spice Co ..	New York.
770	.....	.....	.....	.....
774	.....	New York .....	.....	New York.
794	John Dabus .....	Piqua, O .....	S. Zollinger .....	Piqua, O.
795	H. Eicholtz .....	Casstown, O .....	Silver King Spice Co ..	New York.
796	M. Fox .....	Piqua, O .....	Silver King Spice Co ..	New York.
797	John Dabus .....	Piqua, O .....	J. K. McIntire .....	Dayton, O.
806	S. Zollinger .....	Piqua, O .....	E. W. Ropes & Co ..	New York.

PEPPER—DESCRIPTION OF SAMPLES—Concluded.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.
812	C. B. Clark & Co.....	Ironton, O.....	F. R. Farrington & Co.	New York.
813	Ketter Grocery Co....	Ironton, O.....	W. H. Crawford & Co.	Baltimore, Md.
846	C. & J. Tea Store....	Steubenville, O.....		
847	Elvin & Vanostram..	Uhrichsville, O .....		
858	Balheim & Banta....	Troy, O .....	C. A. Trentman .....	Dayton, O.
865	H. N. Price.....	W. Alex'ndria, O.	St. Claire & Co .....	Greenville, O.
866	Eikenberry & Christopher.	W. Alex'ndria, O.	C. H. Heine & Co .....	Cincinnati, O.
869	J. Hannon.....	Ironton, O.....	Ball Warfield Drug Co.	Ironton, O.
872	C. P. Worley .....	Portsmouth, O..	A. J. Finney .....	Portsmouth, O.
873	J. F. Horney.....	Portsmouth, O..	M. B. Gilbert & Co .....	Portsmouth, O.
876	Atlantic Tea Co .....	E. Liverpool, O .....		
877	Atlantic Tea Co .....	Steubenville, O.	H. Bristor .....	
105	Sonnhalter Bros ....	Massillon, O....	Crawford .....	Baltimore, Md.
106	Grace & Sonnhalter..	Massillon, O....	Silver King Spice Co ..	New York.
107	Beckel & Dumoulin ..	Canton, O.....	Silver King Spice Co .	New York.
125	E. E. Emerson .....	Cleveland, O....	Weideman & Co .....	Cleveland, O.
126	F. S. McCloud.....	Canton, O .....	Thompson & Taylor ..	Chicago, Ill.
127	Byrider & Atwood...	Akron, O .....		
1345	S. H. Leapley.....	Troy, O .....	People's W. G. Co .....	Cincinnati, O.
47	Thos. Deck.....	Swanton, O.....	Toledo Spice Co .....	Toledo, O.

ANALYSIS OF SAMPLES.

715	Ash .....	5.08
	Highly adulterated with buckwheat flour	
		H. A. WEBER, Chemist.
770	Ash .....	3.10
	Composed exclusively of ground fruit stones probably olive stones.	
		H. A. WEBER, Chemist.
774	Ash .....	3.35
	Consists of wheat bran and ground buckwheat.	
		H. A. WEBER, Chemist.
794	Ash .....	4.31
	Consists of rice flour, roasted cocoanut shells, cayenne pepper and pepper shells.	
		H. A. WEBER, Chemist.
795	Ash .....	5.90
	Consists of buckwheat flour, roasted cocoan- ut shells, cayenne pepper and very little pepper.	
		H. A. WEBER, Chemist.

796	Ash .....	6.21
Consists of buckwheat flour, roasted cocoanut shells, cayenne pepper and very little pepper.		
H. A. WEBER, Chemist.		
797	Ash .....	4.20
Consists of buckwheat flour, roasted cocoanut shells, cayenne pepper and very little pepper.		
H. A. WEBER, Chemist.		
806	Ash .....	4.21
Consists of buckwheat flour, roasted cocoanut shells, cayenne pepper and pepper shells.		
H. A. WEBER, Chemist.		
812	Ash .....	26.48
Consists of gypsum..... 23.00%		
Rice hulls, crackers, cayenne pepper, little pepper.		
H. A. WEBER, Chemist.		
813	Ash .....	16.00
Pepper ..... 90.00		
Gypsum ..... 10.00		
H. A. WEBER, Chemist.		
846	Ash .....	2.67
Consists of buckwheat flour, rice flour, wheat bran, cocoanut shells, cayenne pepper and little pepper.		
H. A. WEBER, Chemist.		
847	Ash .....	10.62
Consists of corn meal, product of wheat and pepper shells		
H. A. WEBER, Chemist.		
858	Ash .....	12.35
Consists of gypsum..... 10.00%		
Rice hulls, rice flour, crackers or bread, corn meal, cocoanut shells and a little pepper.		
H. A. WEBER, Chemist.		

865	Ash . . . . .	5.20
Consists of turmeric, cocoanut shells, rice flour rice hulls and a little pepper.		
	H. A. WEBER, Chemist..	
866 Ash . . . . . 11.84		
Consists of sand, about . . . . . 10.00%		
Rice hulls, rice flour, crackers, roasted bread, roasted peas and pepper.		
	H. A. WEBER, Chemist..	
869	Ash . . . . .	18.30
	Gypsum . . . . .	12.00
	Pepper . . . . .	88.00
	H. A. WEBER, Chemist..	
872	Ash . . . . .	3.04
Consists of cayenne pepper, roasted cocoanut shells, rice hulls, rice flour, crackers, roasted bread and little pepper.		
	H. A. WEBER, Chemist..	
873	Ash . . . . .	4.72
Consists of cayenne pepper, ground buckwheat, rice hulls, rice flour, roasted cocoanut shells, bread or crackers and little pepper.		
	H. A. WEBER, Chemist..	
876	Ash . . . . .	11.35
Consists of gypsum, about . . . . . 8.00		
Cocoanut shells, rice hulls, rice flour, corn meal, cayenne pepper and a little pepper.		
	H. A. WEBER, Chemist..	
877	Ash . . . . .	11.55
Consists of gypsum, about . . . . . 8.00		
Cocoanut shells, corn meal, rice hulls, rice flour, cayenne and a little pepper.		
	H. A. WEBER. Chemist..	

105	Ash.....	8.38
Consists of pepper, some product of wheat and large proportion of dried hulls.		
	H. A. WEBER, Chemist.	
106	Ash.....	5.83
Pepper, about..... 50.00% Rice flour, about..... 50.00%		
	A. W. SMITH, Chemist.	
107	Ash .....	4.32
Consists of rice flour, wheat product, charcoal and some pepper.		
	A. W. SMITH, Chemist.	
125	Ash.....	8.15
Consists of rice flour, wheat and pepper.		
	A. W. SMITH, Chemist.	
126	Ash.....	3 50
Pepper ..... 25.00 Wheat, husks and charcoal..... 75.00		
	A. W. SMITH, Chemist.	
127	Ash.....	4.06
Pepper ..... 35.00 Wheat and rice flour ..... 65.00		
	A. W. SMITH, Chemist.	
1345	Ash.....	14.30
Clay, about..... 10.00 Wheat flour..... 25.00 Pepper..... 65.00		
	G. A. KIRCHMAIER, Chemist.	
47	Ash.....	6.30
Abnormal amount of pepper shells.		
	G. A. KIRCHMAIER, Chemist.	

# Vinegar.

## DESCRIPTION OF SAMPLES.

NO.	DEALER.	ADDRESS.	PRODUCER.	ADDRESS.	MARKED.
709	C. M. Young.....	Washington, C. H..	Chandler & Co.....	Cincinnati, O ...	Pure.
711	Smith & Moore.....	Columbus, O .....	Chandler & Co.....	Cincinnati, O ...	Ex. Pure.
712	J. Snyder.....	Springfield, O .....	Huffman & Co.....	Indianapolis .....	Malt.
714	R. Campbell .....	Columbus, O .....			Crab Cider.
723	O. H. Neff .....	Springfield, O .....	O. H. Neff .....	Springfield, O .....	Pure Cider.
725	Ketter Grocery Co ..	Ironton, O .....	Price & Lucas .....	Louisville, Ky ..	Crab Cider.
731	Saul & Eberly.....	Columbus, O .....	Heinz Vinegar Co ..	Pittsburg, Pa .....	Pure Malt.
737	I. Lynd.....	Ironton, O .....	Price & Lucas.....	Louisville, Ky ..	Cider.
738	H. Pancake .....	Ironton, O .....	Alden Vinegar Co ..	St. Louis, Mo ..	Country.
739	W. A. Murdock.....	Ironton, O .....	R. M. Hughes & Co ..	Louisville, Ky ..	Special.
744	E. Fisher.....	Zanesville, O .....	Pinkerton Bros.....	Zanesville, O .....	Cider.
745	S. Brown.....	Columbus, O .....			Cider.
773	Conn & Co .....	Van Wert, O .....	Price & Lucas .....	Louisville, Ky ..	Cider.
776	C. D. Smith.....	Athens, O .....	F. C. Stedman .....	Athens, O .....	Cider.
837	J. G. Muth.....	Bellaire, O .....			Wheeling, W. Va .. Cider.
863	Roselins Glander ..	W. Alexandria, O ..	J. K. McIntire .....	Dayton, O .....	Pickle.
864	Eikenberry & Christopher,	" .....			
875	M. B. Gilbert & Co ..	Portsmouth, O .....	O. ValleyVinegar Co.	Cincinnati, O .....	Malt.
887	C. P. Worley .....	Portsmouth, O .....	Eclipse Vin. Works ..	Louisville, Ky ..	Cider.
888	C. P. Worley .....	Portsmouth, O .....	Eclipse Vin. Works ..	Louisville, Ky ..	Malt.
911	J. Orr's Sons.....	Steubenville, O .....	O. ValleyVinegar Co.	Cincinnati, O .....	
3		Massillon, O .....			Cider.
4	Morgan & Co .....	Massillon, O .....	Alden Vinegar Co ..	St. Louis, Mo ..	Vinegar
12	H. P. Ward.....	Cleveland, O .....			Vinegar.
13	Rupender & Co .....	Cleveland, O .....			Pure Malt.
14	Williams Bros .....	Cleveland, O .....	Williams Bros .....	Detroit, Mich ..	Pure Malt.
15	Highland Vin. Co ..	Cleveland, O .....			Colored.
16	Highland Vin. Co ..	Cleveland, O .....			Pure Malt.
19	A. F. Holister.....	Youngstown, O .....	Cider Vinegar Works ..		White Wine.
20	W. J. Neville.....	Youngstown, O .....	Ky. Fruit G. Asso ..	Louisville, Ky ..	Pure Crab.
21	McKelvey Co .....	Youngstown, O .....	Heinz & Co .....	Pittsburg, Pa ..	Standard Malt.
22	Clegg Bros .....	Youngstown, O .....	Cruikshank Bros. Co ..	Allegheny City ..	Cider.
31	A. S. Beecher.....	Cleveland, O .....	Price & Lucas .....	Louisville, Ky ..	Apple.
32	A. S. Beecher.....	Cleveland, O .....	Price & Lucas .....	Louisville, Ky ..	Malt.
47	Morris & Abel .....	Cleveland, O .....	Forest City Vin, Wks.	Cleveland, O .....	Pure Cider.
67	C. Herman.....	Cleveland, O .....	San. Cider Vin. Wks.	Sandusky, O .....	Cider.
69	J. Wise.....	Akron, O .....	San. Cider Vin. Wks.	Sandusky, O .....	Pure Cider.
70	Mitchell & Reed .....	Akron, O .....	Berea Vinegar Co ..	Berea, O .....	Pure Cider.
74			San. Cider Vin. Wks.	Sandusky, O .....	Pure Cider.
81	Baldwin & Morgan.	Youngstown, O .....	P. Duff & Son .....	Pittsburg, Pa ..	Pure Cider.
36	Banks,Balinger&Co.	Cleveland, O .....	P. Duff & Son .....	Pittsburg, Pa ..	Pure Cider.
40	Banks,Balinger&Co.	Cleveland, O .....	P. Duff & Sons .....	Pittsburg, Pa ..	
86	J. Coodman.....	Cleveland, O .....	Williams Bros .....	Detroit, Mich ..	Cider.
87	J. Goodman.....	Cleveland, O .....	Williams Bros .....	Detroit, Mich ..	Cider.
96	G. F. Breckel .....	Massillon, O .....	Price & Lucas .....	Louisville, Ky ..	Apple.
108	Stinchcomb, Henry&Co.	Cleveland, O .....	HighlandVinegar Co.	Cleveland, O .....	Vinegar.
16	Union Vinegar Co ..	Cincinnati, O .....	Union Vinegar Wks.	Reading, O .....	Wine.
17	V. Prinz & Son .....	Cincinnati, O .....	V. Prinz & Son .....	Cincinnati, O .....	Pure Apple.
19	F. Miller Vin. Co ..	Cincinnati, O .....	F. Miller Vin. Co .....	Cincinnati, O .....	Malt,
21	W. Wilke, Jr .....	Cineinnati, O .....	W. Wilke, Jr .....	Cineinnati, O .....	Wine.
1	M. Able .....	Cleveland, O .....	Forest City Vin Wks.	Cleveland, O .....	Pure Cider
4	Weidman Co .....	Cleveland, O .....	C. H. Struebe .....	Sandusky, O .....	Cider.
119	J. G. Janson.....	Cleveland, O .....	Red CrossVinegar Co.	St. Louis, Mo ..	Apple.
1339	F. Cone .....	Findlay, O .....	San. Vinegar Co .....	Sandusky, O .....	Cider.
1330	F. Cross .....	Findlay, O .....	San. Vinegar Co .....	Sandusky, O .....	Cider.
1324	G. W. Finch .....	Toledo, O .....			Cider.
50	Food & Brankey .....	Bowling Green, O ..	J. M. Baur Co .....	Toledo, O .....	Cider.
63	Iddings & Fisk .....	Celina, O .....	Humphreys & Hughs.	Van Wert, O .....	Malt.
64	S. T. Johnson .....	Celina, O .....	C. C. Gleason & Son ..	Van Wert, O .....	Cider.
67	J. A. Mattler .....	Kenton, O .....	B. T. Chandler & Co ..	Cincinnati, O .....	Malt.

## VINEGAR—ANALYSIS OF SAMPLES.

No.	Solids.	Ash.	Acetic Acid	Color.	Chemist.
709	0.23	0.03	3.00	Caramel.	Weber.
711	0.39	0.04	3.60	"	"
712	0.39	0.04	3.60	"	"
714	0.40	0.06	3.00	"	"
723	1.71	0.27	3.60	None.	"
725	0.21	0.02	3.30	Caramel.	"
730	1.86	0.14	3.90	None.	"
737	1.01	0.12	3.06	"	"
738	0.43	0.15	3.12	Caramel.	"
739	0.25	0.04	3.12	"	"
744	0.33	0.06	3.00	"	"
745	1.17	0.21	4.14	None.	"
773	0.18	0.03	2.40	Caramel.	"
776	0.41	0.09	3.90	"	"
837	2.47	0.09	4.80	"	"
863	0.28	0.04	4.26	"	"
864	0.30	0.03	4.68	"	"
875	0.32	0.05	3.48	"	"
887	0.37	0.05	3.48	"	"
888	0.30	0.05	3.48	"	"
911	0.30	0.04	4.32	"	"
3	0.14	0.03	3.47	"	A. W. Smith.
4	0.43	0.15	3.15	"	
12	0.58	0.02	4.33	"	
13	0.21	0.06	2.87	"	
14	0.28	0.03	3.40	"	
15	0.16	0.02	3.88	"	
16	0.23	0.03	7.23	"	
19	0.42	0.10	5.10	"	
20	0.24	0.04	4.38	Caramel.	
21	1.36	0.47	4.05	"	
22	0.24	0.01	2.85		
31	0.34	0.04	3.58	Caramel.	
32	0.24	0.04	2.94	"	
47	1.53	0.18	3.76	"	
67	1.42	0.20	3.65	"	
69	1.19	0.14	3.44	"	
70	0.59	0.13	3.54	"	
74	1.68	0.24	3.43	Caramel.	
81	0.42	0.13	3.27	"	

VINEGAR—ANALYSIS OF SAMPLES—Concluded.

No.	Solids.	Ash.	Acetic Acid	Color.	Chemist.
36	1.20	0.18	4.10	Caramel.	A. W. Smith.
40	1.41	0.17	3.74	"	"
86	0.24	0.03	3.32	"	"
87	0.27	0.04	3.12	"	"
96	0.36	0.09	2.98	"	"
108	0.24	0.06	3.44	"	"
16	0.20	0.02	6.75	Colorless.	A. H. Otten.
17	1.04	0.17	6.25		"
19	0.30	0.03	7.10	Artificial.	"
21	0.38	0.01	6.50	Colorless.	"
1	1.18	0.13	3.75	Caramel.	King.
4	1.28	0.19	3.51		"
119	1.29	0.17	4.11		Schmidt.
1329	1.30	0.23	3.72		Kirchmaier.
1330	1.26	0.18	3.84		"
1324	0.28	0.05	2.64	Caramel.	"
50	1.06	0.26	3.69		"
63	0.34	0.06	4.62	Caramel.	"
64	1.34	0.20	2.40	"	"
67	0.58	0.04	4.26	"	"

Cider Vinegar.

ANALYSIS OF SAMPLES.

No.	Solids.	Ash.	Acetic Acid	Chemist.	Remarks.
701	3.13	0.37	4.20	H. A. Weber.	Pure.
713	2.54	0.32	4.20	"	"
722	2.00	0.31	4.50	"	"
732	2.96	0.34	4.08	"	"
835	2.29	0.56	4.17	"	"
890	2.60	0.27	3.78	"	"
85	2.41	0.27	4.26	A. W. Smith.	"
88	2.80	0.35	4.74	"	"

Malt Vinegar.

ANALYSIS OF SAMPLES.

No.	Solids	Ash.	Acetic Acid	Chemist.	Remarks.
747	2.46	0.30	6.00	H. A. Weber.	Pure Malt.
766	2.61	0.23	4.56	"	" "

## Wine and Cider.

### DESCRIPTION AND ANALYSIS OF SAMPLES.

**759** Sweet Catawba from August Schmidt jr., Sandusky, O.

Alcohol .....	10.61
Free acid as tartaric .....	00.60
Reducing sugar.....	18.18
Solid extract .....	20.40
Ash .....	0.17

Contains salicylic acid.

H. A. WEBER, Chemist.

**833** Sweet crab cider from Dennis Kelly, Columbus, O.

Solid Extract.....	7.98
Ash .....	0.41
Salicylic acid in 1 pint .....	4.65 gr.
Salicylic acid in 1 bbl. of 40 gallons .....	3.4 oz.

H. A. WEBER, Chemist.

**58** Blackberry wine from M. Bernstein, Cleveland, O.

Extract.....	24.50
Volatile acid as acetic .....	0.35
Reducing sugar.....	17.90
Glycerine.....	0.26
Alcohol .....	9.20

Contains salicylic acid.

A. W. SMITH, Chemist.

**64** Catawba wine from J. Ettinger, Cleveland, O.

Extract.....	1.42
Alcohol .....	11.95
Reducing sugar.....	0.18
Glycerine.....	0.51
Acid as tartaric.....	0.22
Acid as acetic .....	0.45

Contains salicylic acid.

A. W. SMITH, Chemist.

870

Sweet cider from Peter Schille, Columbus, O.

Salicylic acid in 1 pint.....	3.6 gr.
Salicylic acid in 1 bbl. of 40 gallons.....	2.6 oz.

H. A. WEBER, Chemist.

75

Blackberry wine from M. Bernstein, Cleveland, O.

Extract.....	20.47
Fixed acids .....	None
Acid as acetic .....	0.33
Glycerine.....	0.22
Reducing sugar.....	18.00
Cane sugar .....	3.40
Alcohol .....	10.14

Contains salicylic acid and red aniline dye.

A. W. SMITH, Chemist.

111

Blackberry wine from M. Bernstein, Cleveland, Ohio.

Extract.....	16.96
Ash .....	0.15
Sugar.....	16.24
Alcohol .....	12.10
Glycerine.....	0.30
Volatile acids .....	0.50

Contains salicylic acid.

A. W. SMITH, Chemist.

18

Pomace wine, Old Catawba Island Wine Co., Catawba Island, O.

Alcohol .....	8.14
Acid as tartaric.....	0.37
Acid as acetic .....	0.36
Reducing sugar.....	0.12
Glycerine.....	0.46
Total solids.....	1.40
Ash .....	0.25
Preservatives.....	None
Color, artificially.....	None

G. A. KIRCHMAIER, Chemist.

**1335** Cider marked pure juice, from E. A. Lacy,  
Toledo, O. Producer, Duffy Cider Co.,  
Rochester, N. Y.

Acid as malic .....	0.17
Extract.....	13.50
Fruit sugar .....	2.50
Ash .. .	0.34
Contains salicylic acid.	

G. A. KIRCHMAIER, Chemist.

**1336** Cider from A. A. Geroe & Son, Toledo, O.  
Producer, Niagara Cider and Vinegar Co.,  
Tonawanda, N. Y.

Acid as malic.....	0.19
Extract.....	15.24
Fruit sugar.....	2.50
Ash .. .	0.24
Contains salicylic acid.	

G. A. KIRCHMAIER, Chemist.

## Miscellaneous.

- 724** Ice cream from Dispatch Office, Columbus, Ohio.
- |                         |       |
|-------------------------|-------|
| Cream .....             | 10.00 |
| Gelatine and sugar..... | 25.00 |
| Water .....             | 65.00 |
- H. A. WEBER, Chemist.
- 821** "Preservaline" a white granular powder used as preservative for food,
- |                       |        |
|-----------------------|--------|
| Sodium benzoate ..... | 100.00 |
|-----------------------|--------|
- H. A. WEBER, Chemist.
- 822** "Preservaline" a heavy liquid used as a food preservative. This sample was found to be a standard solution of salicylic acid and alcohol.
- H. A. WEBER, Chemist.
- 66** Olive oil from A. Soeter, Cleveland, Ohio.
- |  |         |
|--|---------|
| Specific gravity at 15° .....            | .9235   |
| Rise of temperature, sulphuric acid..... | 72.3°   |
| Iodine absorption .....                  | 106.8%  |
| Cotton seed oil .....                    | 100.00% |
- A. W. SMITH, Chemist.
- 72** Olive oil from Chas. Herman Grocery Co., Cleveland, O. Producer, Thurber, Wyland & Co., New York.
- |  |        |
|--|--------|
| Specific gravity at 15° .....            | .9237  |
| Rise of temperature, sulphuric acid..... | 73.5°  |
| Iodine absorption.....                   | 106.1% |
| Cotton seed oil .....                    | 100.%  |
- A. W. SMITH, Chemist.
- 76** Olive oil from Herman McLean Co., Cleveland, O. Producer, Thurber, Wyland & Co., New York.
- |  |         |
|--|---------|
| Specific gravity at 15° .....                | .9246   |
| Rise of temperature with sulphuric acid..... | 72.30   |
| Iodine absorption.....                       | 106.8%  |
| Cotton seed oil.....                         | 100.00% |
- A. W. SMITH, Chemist.

78	Condensed milk from Atlantic and Pacific Tea Co., Cleveland, O. Producer, Clover Condensed Milk Co., Detroit, Mich.	
	Total Solids.....	73.63
	Fat .....	5.18
	Ash .....	1.81
	Sucrose .....	5.04
	Reducing Sugar.....	11.13

A. W. SMITH, Chemist.

1326	Buckwheat flour, self-rising, from Berdan & Co., Toledo, O. Producer, Geiger-Wagner Co., Lafayette, Ind.	
	Buckwheat flour.....	90.00
	Wheat flour.. ..	10.00
	Ash .....	4.80
	Salt.....	2.50

G. A. KIRCHMAIER, Chemist.

1344	Buckwheat flour, from C. Johnson, Toledo, O. Producer, Fallis & Co., Toledo, O.	
	Buckwheat flour.....	90.00
	Wheat flour.....	10.00

G. A. KIRCHMAIER, Chemist.

56	Grape Jelly (pure fruit goods), from H. D. Wood & Co., Toledo, O. Producer, American Preserves Co., Buffalo, N. Y.	
	Glucose .....	26.50
	Total solids .....	69.00
	Ash .....	0.29
	Color, magenta.	
	Artificial flavor.	

G. A. KIRCHMAIER, Chemist.

55	Peach jelly, (from fruit goods), from Berdan & Co., Toledo, O. Producer, American Preserves Co.. Buffalo, N. Y.	
	Glucose .....	26.50
	Total solids.....	65.00
	Ash .....	0.32
	Artificially colored and flavored.	

G. A. KIRCHMAIER, Chemist.

- 65** Buckwheat flour, from C. A. Strumph, Cincinnati, O. Producer, W. H. Harrison, Cincinnati, O.  
Buckwheat flour ..... 80.00%  
Wheat flour ..... 20.00%  
A. H. OTTEN, Chemist..
- 66** Buckwheat flour from Durst Milling Co., Dayton, O.  
Buckwheat flour ..... 80.00  
Wheat flour ..... 20.00  
A. H. OTTEN, Chemist..
- 76** Buckwheat flour from Meyer & Ernest, Cin'ti, O. / Producer, Cohocton Milling Co., N. Y.  
Buckwheat flour ..... 80.00  
Wheat flour ..... 20.00  
A. H. OTTEN, Chemist..
- 80** Buckwheat flour from Heathman Branch U. S. Baking Co., Dayton, O. Producer, same.  
Buckwheat flour ..... 75.00  
Wheat flour ..... 25.00  
A. H. OTTEN, Chemist..
- 86** Sneider's catsup, from J. A. Sneider Preserve Co., Cincinnati, O. Producer, same.  
Contains salicylic acid and artificial coloring matter.  
A. H. OTTEN, Chemist..
- 96** Currant jelly from Hamilton & Co., Cincinnati, O. Producer, American Preserve Co., Cincinnati, O.  
Artificially colored and flavored.  
A. H. OTTEN, Chemist..
- 118** Olive oil from W. H. Echler & Co., Pleasant Ridge, O.  
Cotton seed oil ..... 20.00  
Olive oil ..... 80.00  
SCHMIDT, Chemist..

**1313** Strawberry jelly from Thos. Freeman, Sandusky, O. Producer, H. E. Goodwin, Indianapolis, Ind.

Total solids ..... 64.24

Glucose ..... 26.25

Ash ..... 0.43

Artificial color and contains no fruit juice.

G. A. KIRCHMAIER, Chemist.

**1327** Plum jelly from E. M. Kean, Toledo, O. Producer, American Preserves Co., Buffalo, New York.

Total solids ..... 66.20

Glucose ..... 26.75

Ash ..... 0.29

Color, magenta.

Artificial flavor.

G. A. KIRCHMAIER, Chemist.

**1325** Buckwheat flour, King's quick rising, from Pliney, Watson & Co., Toledo, O.

Buckwheat flour ..... 90.00

Wheat ..... 10.00

Ash ..... 4.23

Salt ..... 2.00

G. A. KIRCHMAIER, Chemist.

**143** Evaporated cream, from The Weidman Co., Cleveland, O. Producer, St. Charles Cream Co.; St. Charles, Ill.

Sugar of milk ..... 10.6

Cane sugar ..... None

Fat ..... 8.11

Total solids ..... 27.30

Ash ..... 1.62

2½ Volumes of milk condensed to 1 volume.

Falsely labelled.

A. W. SMITH, Chemist.

- 144 Condensed milk, from The Weidman Co.,  
Cleveland, O. Producer, Gail Borden, N. Y.  
Milk sugar..... 10.50  
Cane sugar..... 38.00  
Total Solids..... 73.50  
Fat..... 8.90  
Ash..... 1.79
- A. W. SMITH, Chemist.
- 148 Olive Oil, from John McKee, Jr., Warren, O.  
Producer, Burgess & Ross, Cleveland, O.  
Consists entirely of Cotton seed oil.
- A. W. SMITH, Chemist.
- 1 Lard from Daniel Lane, Cincinnati, O. Pro-  
ducer, J. & F. Schroth, Cincinnati, O.  
Adulterated with Stearine.
- A. H. OTTEN, Chemist.
- 3 Lard from I. J. Donnelly, Cincinnati, O.  
Producer, J. & F. Schroth, Cincinnati, O.  
Adulterated with Stearine.
- A. H. OTTEN, Chemist.
- 4 Lard from P. McHue, Cincinnati, O. Pro-  
ducer, Benninger, Cincinnati, O.  
Adulterated with Stearine.
- A. H. OTTEN, Chemist.
- 5 Lard from C. Sunderman, Cincinnati, O.  
Producer, Jacob Vogel, Cincinnati, O.  
Adulterated with Stearine and Cotton-seed oil.
- A. H. OTTEN, Chemist.
- 6 Lard from Jos R. Peebles' Sons, Cincinnati, O.  
Producer, Geo. F. Davis, Cincinnati, O.  
Adulterated with Stearine.
- A. H. OTTEN, Chemist.
- 45 Currant Jelly from W. M. Spencer & Son,  
Cincinnati, O. Producer, W. M. Spencer  
& Son, Cincinnati, O.  
Colored and flavored artificially.
- A. H. OTTEN, Chemist.

- 46 Saratoga Chips from Hamberg & Newburg.  
Said to be manufactured in Philadelphia, Pa.

Alum .....	0.93
Water .....	4.15
Lard.....	14.00
Salt.....	2.50
Potatoes.....	78.42

A. H. OTTEN, Chemist.

- 60 Peach Jelley manufactured by Wm. Spencer & Son, Cincinnati, O.

Found to be colored and flavored artificially.

A. H. OTTEN, Chemist.

- 92 Olive oil from F. A. Miller, Canton, O.

Pure cotton-seed oil.

A. W. SMITH, Chemist.

- 93 Olive oil from J. J. Lippert, Canton, O.

Specific gravity at 15° ..... .9177

Rise of temperature, with sulphuric acid..... 55°

Iodine absorption ..... 93.%

Reaction of cotton-seed oil. Mixture.

A. W. SMITH, Chemist.

- 94 Olive oil from W. A. Pietzeker, Massillon, O. Producer, C. L. McLean & Co., Massillon, O.

Pure cotton-seed oil.

H. A. WEBER, Chemist.

- 95 Buckwheat flour, Forest City self-raising.

Ash ..... 5.15

Buckwheat flour about..... 50.00%

Wheat flour about ..... 50.00%

Ash contains calcium, phosphate, aluminum sulphate and sodium sulphate.

A. W. SMITH, Chemist.

- 140 Lard from James Leonard, Canton, O.

The sample is a mixture of stearine and cotton-seed oil.

A. W. SMITH, Chemist.

- 110** I. X. L. buckwheat flour from E. E. Emerson, Cleveland, O. Producer, Barber & Bennett, Albany, N. Y.  
Ash ..... 5.71  
Buckwheat flour about ..... 50.%  
Wheat flour about ..... 50.%  
Contains sodium bicarbonate, acid phosphate, salt and gypsum.
- H. A. WEBER, Chemist.
- 113** Buckwheat flour from Best & Co., Canton, O. Producer, J. M. Ball, Canton, O.  
Ash ..... 4.33  
Buckwheat flour about ..... 75.00%  
Wheat flour about ..... 25.00%  
Contains sodium bicarbonate, acid phosphate, salt and gypsum.
- A. W. SMITH, Chemist.
- 114** Olive oil from A. R. Sell & Bros., Canton, O. Producer, F. Duport, Bordeaux, France.  
Rise of temperature with sulphuric acid ..... 57.5°  
Specific gravity at 15.5° ..... .9193  
Iodine absorption ..... 92.1%  
Contains cotton-seed oil ..... 35.%
- A. W. SMITH, Chemist.
- 130** Buckwheat flour from W. C. Bonsedt, Akron, O. Producer, American Cereal Co., Akron, O.  
Ash ..... 0.85  
Buckwheat flour ..... 50.00%  
Wheat flour ..... 50.00%
- A. W. SMITH, Chemist.
- 139** Leaf lard from Anerbach Bros., Cleveland, O. Producer, Swift & Co., Chicago, Ill.  
This sample is a mixture of cotton-seed oil and stearine.
- A. W. SMITH, Chemist.

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CHEMISTS' REPORT OF ADULTERATED ARTICLES

THE OHIO STATE UNIVERSITY BOOK DEPOSITORY



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